

**BioFX® Tris Buffered Saline/Casein
Block and Diluent-10X Concentrate**
Product Insert

Product number:

TBSC -0100-01 (100 mL)
TBSC-1000-01 (1000 mL)

Intended use:

BioFX® Tris Buffered Saline/Casein and Diluent-10X Concentrate minimizes non-specific interactions of the secondary reactants with each other and the primary solid phase binding sites. The high blocking efficiency of casein is due to its content of small molecular weight proteins. The solution is ready for dilution to specific application requirements.

Product stability, storage and specifications:

Product stability	2 years from the date of manufacture.
Storage	2-8°C
Specification	The solution should be clear and colorless to light yellow in appearance. To minimize the risk of contamination, a fresh working solution should be prepared each day or store unused working solutions at the recommended storage temperature.

Recommendations for use:

- 1) Dilute 1 mL of TBS Casein Block/Diluent-10X Concentrate in 9 mL reagent quality water to produce a 1X working solution.
- 2) Allow the 1X working solution to equilibrate to room temperature (25°C) prior to use.
- 3) To use as a blocking reagent, completely cover the target surface with the 1X working solution. To use as a diluent, dilute the antigen/antibody to a desired concentration in the 1X working solution and completely cover the target surface as needed.
 - An overnight incubation step at 2-8°C following the coating process will yield the best results.

Additional considerations:

TBS, pH 7.6, is a poor buffer below pH 7.5. The pH can fall more than 1 pH unit in warming from 0-37°C. Tris has the disadvantages of its reactivity as a primary amine and its appreciable solubility in organic solvents, which can lead to an accumulation in the biological phase of a reaction system. To avoid complex formation with ionic species such as calcium and magnesium in blood, tris buffers are preferable over phosphate buffers.

Related products:

BioFX® Phosphate Buffered Saline/Casein Block and Diluent –5X Concentrate (PBSC)
BioFX® Chemiluminescent Ultra Sensitive HRP Membrane Substrate (CHMM)
BioFX® TMB Enhanced HRP Membrane Substrate (ESPM)

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